

- Heterogaster notatipes*, Walk. loc. cit. p. 73. n. 9, = *Heterogaster urticae*, Fabr.  
 — *atriclava*, Walk. loc. cit. n. 10, = *Nysius contiguus*, Walk.  
*Rhyparochromus armatipes*, Walk. loc. cit. p. 91. n. 116, = *Dieuches ar-  
 mipes*, Fabr.  
 — *luscinus*, Walk. loc. cit. p. 93. n. 120, = *Dieuches luscus*, Fabr.  
 — *concinulus*, Walk.\* loc. cit. n. 121, = *Tropistethus seminitens*, Puton.  
 — *testaceipes*, Walk. loc. cit. p. 101. n. 160, = *Dieuches punctipes*, Dohrn.  
 — *delineatus*, Walk. loc. cit. p. 103. n. 169, = *Pamera pallicornis*, Dall.  
 — *terminalis*, Walk. loc. cit. p. 105. n. 173, = *Narbo biplagiatus*, Walk.  
 — *alienus*, Walk. loc. cit. n. 175, = *Lethæus descriptus*, Walk.  
 — *inornatus*, Walk. loc. cit. p. 112. n. 196, = *Pamera nigriceps*, Dall., var.  
*Gastrodes terminalis*, Walk. loc. cit. p. 122. n. 3, = *Clerada apicicornis*, Sign.  
*Ischnodemus multilinea*, Walk. loc. cit. p. 131. n. 29, = *Aphanus albofascia-  
 tus*, Stål.  
 — *centralis*, Walk. loc. cit. p. 132. n. 31, = *Macropes spinimanus*, Motsch.  
*Ophthalmicus cinerascens*, Walk. loc. cit. n. 138, n. 31, = *Geocoris tricolor*,  
 Fabr.  
*Cymus truncatulus*, Walk. loc. cit. p. 142. n. 15, = *Ischnorhynchus gemi-  
 natus*, Fabr.  
*Thaumastopus? alacer*, Walk. loc. cit. p. 147. n. 2, = *Nonalhieria quadri-  
 punctata*, Brull.  
 — ? *alacris*, Walk. loc. cit. n. 2 (duplicated), = *Cnemodus mavortius*,  
 Say.  
*Anthocoris subcruciatus*, Walk. loc. cit. p. 151. n. 15, = *Oxycaenus macu-  
 latus*, Stål.

*To be treated as non-existent.*

- Species the types of which are not now to be found in the British Museum.*  
*Rhyparochromus serripes*, Walk. Cat. Het. v. p. 92. n. 117 (1872).  
 — *collaris*, Walk. loc. cit. p. 111. n. 195.  
*Ischnodemus longus*, Walk. loc. cit. p. 127. n. 8.  
*Anisocoris punctifer*, Walk. loc. cit. p. 148. n. 1.  
*Rhyparochromus circumcinctus*, Walk. Cat. Het. v. p. 97. n. 147 (1872), =  
 an immature form of a Lygæid.  
*Ischnodemus strigatus*, Walk. loc. cit. p. 130. n. 27. Type in very bad  
 condition.

LXII.—*List of the Fishes of the Characinid Genus Distichodus, Müll. & Trosch., with a Key to their Identification.*  
 By G. A. BOULENGER, F.R.S.

I. Sq. 37-57  $\frac{7-9}{10-12}$ .

A. Snout not compressed.

1. D. 16-18, separated from the adipose  
 by a space equal to its base.

A. 15-16; Sq. 38-41  $\frac{7}{8-9}$ ; 6 or 7 scales  
 between lateral line and ventral; caudal  
 lobes pointed . . . . .

1. *D. notospilus*, Gthr.

\* The species standing under Walker's name, though not agreeing with description (*Horvath*).

- A. 19-21; Sq. 37-39  $\frac{7}{10}$ ; 7 scales between lateral line and ventral; caudal lobes rounded ..... 2. *D. affinis*, Gthr.
- A. 21-22; Sq. 40-42  $\frac{9}{11-12}$ ; 9 scales between lateral line and ventral; caudal lobes rounded ..... 3. *D. altus*, Blgr.  
 2. D. 20, separated from the adipose by a space equal to  $\frac{2}{3}$  its base.
- A. 16; Sq. 45  $\frac{9}{10}$ ; 8 scales between lateral line and ventral ..... 4. *D. noboli*, Blgr.  
 B. Snout a little compressed; D. 18-19, separated from the adipose by a space equal to its base.
- A. 12-13; Sq. 53-57  $\frac{8}{10-11}$ ; 6 scales between lateral line and ventral ..... 5. *D. hypostomatus*, [Pellegr.  
 II. Sq. 60-110  $\frac{10-20}{13-25}$ .
- A. Snout deeper than long, broad or feebly compressed.  
 1. Sq. 60-78  $\frac{10-15}{13-17}$ .  
 a. D. 19, separated from the adipose by a space nearly equal to its base.
- A. 11; Sq. 70-75  $\frac{9-10}{10-12}$ ; 7 or 8 scales between lateral line and ventral ..... 6. *D. maculatus*, Blgr.  
 b. D. 22-27, separated from the adipose by a space much shorter than its base.  
 a. Interorbital width nearly twice length of snout.
- D. 22; A. 16; Sq. 68  $\frac{13}{15}$  ..... 7. *D. Petersii*, Pfeff.  
 β. Interorbital width not more than  $1\frac{1}{2}$  length of snout.
- D. 22-25; A. 13-15; Sq. 60-66  $\frac{10-12}{12-13}$  ..... 8. *D. Antonii*, Schilth.
- D. 22-24; A. 13-15; Sq. 68-77  $\frac{13-14}{14-15}$  ..... 9. *D. atroventralis*, Blgr.
- D. 25-27; A. 14-16; Sq. 68-78  $\frac{13-15}{14-16}$ ; interorbital width not greater than length of snout ..... 10. *D. fasciolatus*, Blgr.
- D. 26-27; A. 14-16; Sq. 67-69  $\frac{13-14}{13-14}$ ; interorbital width  $1\frac{1}{2}$  length of snout ..... 11. *D. mossambicus*, Ptrs.  
 2. Sq. 80-110  $\frac{15-20}{16-25}$ .
- D. 20-21; A. 13-15; Sq. 80-90  $\frac{17-20}{23-25}$  ..... 12. *D. brevipinnis*, Gthr.
- D. 23-25; A. 14-16; Sq. 85-98  $\frac{15-16}{16-20}$  ..... 13. *D. rostratus*, Gthr.
- D. 23-26; A. 13-15; Sq. 95-110  $\frac{18-20}{20-25}$  ..... 14. *D. niloticus*, L.
- B. Snout deeper than long, strongly compressed.  
 D. 23-24; A. 13; Sq. 80-82  $\frac{14-15}{16-17}$  ..... 15. *D. engycephalus*, Gthr.

- D. 24-25; A. 12-14; Sq. 60-68  $\frac{14-16}{14-16}$  . . . . . 16. *D. sexfasciatus*, Blgr.  
C. Snout longer than deep, not compressed.
- D. 24-26; A. 13-14; Sq. 70-85  $\frac{15-18}{15-18}$  . . . . . 17. *D. lusosso*, Schilth.
1. *Distichodus notospilus*.  
Günth. Ann. & Mag. N. H. (3) xx. 1867, p. 114; Bouleng. Poiss. Congo, p. 186 (1901).  
Gaboon, Ogowé, Congo.
  2. *D. affinis*.  
Günth. Ann. & Mag. N. H. (4) xii. 1873, p. 144; Bouleng. l. c. p. 187.  
*D. abbreviatus*, Peters, Mon. Berl. Ac. 1876, p. 845.  
Congo.
  3. *D. altus*.  
Bouleng. Ann. Mus. Congo, Zool. i. p. 80, pl. xxxv. fig. 1 (1899), and l. c. p. 188.  
Congo.
  4. *D. noboli*.  
Bouleng. Ann. Mus. Congo, Zool. i. p. 81, pl. xxxv. fig. 2 (1899), and l. c. p. 189.  
Congo.
  5. *D. hypostomatus*.  
Pellegrin, Bull. Mus. Paris, 1900, p. 351.  
Ogowé.
  6. *D. maculatus*.  
Bouleng. Ann. Mus. Congo, Zool. i. p. 27, pl. xiii. fig. 1 (1898), and l. c. p. 190.  
Congo.
  7. *D. Petersii*.  
Pfeffer, Thierw. O.-Afr., Fische, p. 41 (1896).  
Kingani R., German East Africa.
  8. *D. Antonii*.  
Schilthuis, Tijdschr. Nederl. Dierk. Ver. (2) iii. 1891, p. 89; Bouleng. l. c. p. 191.  
Congo.
  9. *D. atroventralis*.  
Bouleng. Ann. Mus. Congo, Zool. i. p. 28, pl. xiii. fig. 2 (1898), and l. c. p. 192.  
Congo.

10. *D. fasciolatus.*

Bouleng. Ann. Mus. Congo, Zool. i. p. 27, pl. xiv. (1898), and *l. c.* p. 193.  
Congo.

11. *D. mossambicus.*

Peters, Mon. Berl. Ac. 1852, p. 275, and Reise n. Mossamb. iv. p. 71,  
pl. xiii. fig. 1 (1868).

*D. schenga*, Peters, *l. cc.* pp. 276, 74, pl. xiii. fig. 2.

*D. macrolepis*, Günth. Cat. Fish. v. p. 362 (1864).

Zambesi and Shiré River.

12. *D. brevipinnis.*

Günth. Cat. Fish. v. p. 361 (1864), and in Petherick's Trav. ii. p. 247,  
pl. iii. fig. C (1869); Steind. Sitzb. Ak. Wien, lxi. i. 1870, p. 547,  
pl. iii. fig. 1.

White Nile, Senegal.

13. *D. rostratus.*

Günth. Cat. Fish. v. p. 360 (1864), and in Petherick's Trav. ii. p. 246,  
pl. iii. fig. B (1869).

*D. Martini*, Steind. Sitzb. Ak. Wien, lxi. i. 1870, p. 549, pl. iii. fig. 2.

Nile, Senegal, Niger.

14. *D. niloticus.*

*Salmo niloticus*, Linn. in Hasselq. Iter, p. 378 (1757).

*Salmo aegyptiacus*, Gmel. S. N. i. p. 1386 (1788).

*Characinus nefasch*, Lacép. Hist. Poiss. v. p. 274 (1803); Geoffr.

Descr. Egypte, p. 44, pl. v. fig. 1 (1809).

*Distichodus niloticus*, Müll. & Trosch. Hor. Ichth. i. p. 12, pl. i. fig. 3  
(1845); Günth. Cat. Fish. v. p. 360 (1864).

*Distichodus nefasch*, Cuv. & Val. Hist. Poiss. xxii. p. 175 (1849).

*Distichodus rudolphi*, Günth. P. Z. S. 1896, p. 223; Vinciguerra, Ann.  
Mus. Genova, (2) xix. 1898, p. 258.

Nile, L. Rudolf.

15. *D. engycephalus.*

Günth. Cat. Fish. v. p. 361 (1864), and in Petherick's Trav. ii. p. 247  
(1869).

White Nile.

16. *D. sexfasciatus.*

Bouleng. Ann. & Mag. N. H. (6) xx. 1897, p. 425, and *l. c.* p. 194.

Congo.

17. *D. lusosso.*

Schilthuis, Tijdschr. Nederl. Dierk. Ver. (2) iii. 1891, p. 90; Bouleng.  
*l. c.* p. 195.

*D. leptorhynchus*, Bouleng. Ann. & Mag. N. H. (6) xx. 1897, p. 425.

Congo.

*Distichodus Marnoi*, Steind. Sitzb. Ak. Wien, lxxxiii.  
i. 1881, p. 200, is founded on a specimen of *Citharinus*  
*Geoffroyi*.

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